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Parity Check Matrix Generation Method, Data Transmission System, Encoding Device, Decoding Device, and a Parity Check Matrix Generation Program

Y Senda - US Patent App. 12/470,196, 2009 - Google Patents

... **matrix** generation method, a data transmission system, an **encoding device**, a decoding device, and a ... that can limit calculation costs when generating a **parity check matrix** and when **encoding**. ... to satisfy the **conditions** that, when any two **rows** contained in **partial matrix H1** are ...

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Primary Class

M Senda - freepatentsonline.com

... A decoding **device** for: receiving codewords from an **encoding device** by way of a transmission line ... check **matrix** to decode said received codewords and convert to data that preceded **encoding**. ... to satisfy **conditions** that, when any two **rows** contained in said **partial matrix H1** are ...

[All 2 versions](#)

Method and system for generating parallel decodable low density parity check (LDPC) codes

FW Sun, M Eroz, L Lee - US Patent App. 11/936,095, 2007 - Google Patents

... Q Q L O f 5 ° 0 / C N J S U i j , 1 r l ' , , > | — **DEVICE** CURSOR mrxITDni ... **Encoding** an LDPC code using its generator **matrix** would require storing a very large, non-sparse **matrix** ... of the bipartite graph, the derived code can be obtained by deleting some edges in the mapped **matrix**. ...

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[CITATION] Efficient secure channel coding based on quasi-cyclic low-density parity-check codes

AAS Afshar, T Eghlidos, M R Aref - Communications, IET, 2009

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[PDF] STUDY OF QUANTUM LOW DENSITY PARITY CHECK AND QUANTUM DEGENERATE CODES

HK Hiu - sunzi.lib.hku.hk

... HKU B.Sc. HKU A thesis submitted in **partial** fulfillment of the requirements for ... classical bit can be cloned perfectly and stored in some physical **device** robustly in the classical computer. ... employed random coding for which there is no practical **encoding** or decoding algorithm. ...

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Ultra-High Capacity Holographic Memories

A Adibi, F Fekri, SW McLaughlin, GEORGIA INST OF ... - 2004 - cal.dtic.mil

... III. Material Characterization For material characterization, several holographic experiments with **different** recording parameters were performed in a 2 mm ... After this **phase**, the hologram was read in the presence of a Bragg-mismatched beam to observe the **partial** erasure of ...

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Error-correcting coding system

RM Tanner - US Patent 4,295,218, 1981 - Google Patents

... CODE CORRESPONDING BIPARTITE GRAPH FIG 36 (b) NEXT PRODUCT FIG 37 **PARTIAL** SKETCH OF ... Moreover, under particularly An encoder can be thought of as a **device** which bad ... Finally, to provide both an **encoding** and decoding process and apparatus structured to ...

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[BOOK] Turbo coding

C Heegard, SB Wicker - 1999 - books.google.com

... Methods for data **encoding** and decoding that increase the reliability of a communication channel. ...

An input/output **device** with finite mem-ory ... statistics within the parameterization, and the subsequent development of turbo decoders that can adapt to changing channel **conditions**. ...

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BHJ Peiris - 2006 - txspace.tamu.edu

... Today, the main challenge of the hard disk manufacturers is to design a compact, fast, high storage **devices** at low cost. ... Hence, a magnetic recording track can be modelled as a **partial** response channel that allows ... We also discuss the concept behind the turbo **encoding** ...

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Constrained Coding and Signal Processing for Holography

SS Garani - 2006 - smartech.gatech.edu

... by Shayan Garani Srinivasa In **Partial** Fulfillment of the Requirements for the Degree Doctor of Philosophy ... 78 6.2 M-ary **Encoding** of Pixels The re-created object beam is projected on a high-quality pixelated array of photodetectors called a charge-coupled **device** (CCD) to re- ...

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